



**Asia-Pacific
Economic Cooperation**

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Session 2b-i

Early Warning Early Action: The Four Pillars of Wisdom - Presentation

Submitted by: United Nations International Strategy for Disaster
Reduction



**12th Senior Disaster Management Officials
Forum
Kokopo, Papua New Guinea
25-26 September 2018**

Early Warning Early Action: The Four Pillars of Wisdom

*12th Senior DM Officials Forum
Kokopo, East New Britain Province*

*Andy McElroy UNISDR
25 September 2018*



EW/EA: The four pillars of wisdom

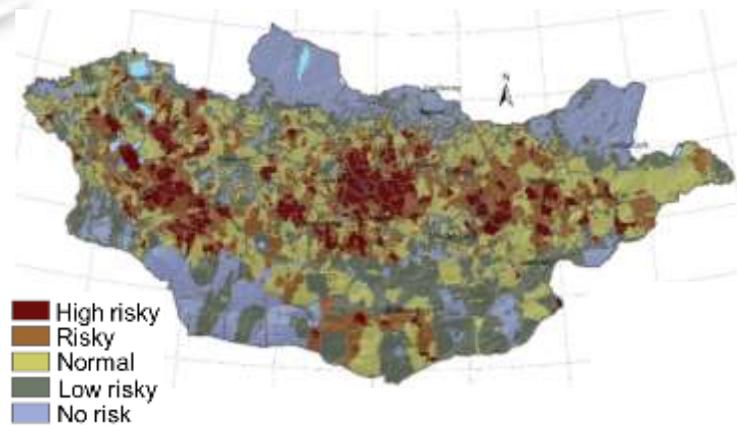
1. Systematic collection of data & disaster risk assessment
 2. Detection, monitoring, analysis & forecasting of hazards & their possible consequences
 3. Timely dissemination & communication of understandable, accurate and actionable warnings from a trusted source
 4. Preparedness to respond appropriately
-



Pillar 1: Data & risk assessment

Question: How was the 2017-8 dzud in Mongolia predicted enabling prompt action to vulnerable herders?

Pillar 1: Data & risk assessment



Produced by Information and Research Institute of Meteorology,
Hydrology and Environment
Date: 10 Nov 2017

Answer: A scientific collaboration produced a dzud risk map based on ground & satellite observations & weather forecasting over past three winters. This was used by the government and its partners to trigger cash and fodder distribution and veterinary support



Pillar 2: Detection, monitoring & forecasting

Question: Why did Cyclone Paradip kill 10,000 people or more when it struck the coast of Odisha, India, in 1999, while 14 years later a storm of similar magnitude – Cyclone Phailin – killed ‘only’ 36 people on the same stretch of coast?

Pillar 2: Detection, monitoring & forecasting



*The Chief Minister of Odisha Naveen Patnaik
with former UNISDR Head Margareta Wahlström*

Because Odisha has made ‘zero casualties’ a political priority and has reinforced this policy goal through better use of risk information which itself informs better preparedness.

‘I thank the meteorological department for its accurate prediction of the storm that played a major role in our preparedness.’ - Chief Minister



Pillar 3: Good info that's useful, used & trusted

Question: In November 2013 Typhoon Haiyan devastated the tiny island of Tulang Diyot, in the Philippines. How come nobody died?

Pillar 3: Good info that's useful, used & trusted



Mayor Al Arquillano

Answer: Because the community trusted this man who for years had worked to ensure that the residents of the municipality of San Francisco:

1. Received good disaster risk information on time
2. Understood such information and knew how to appropriately prepare & respond



Pillar 4: Preparedness to respond

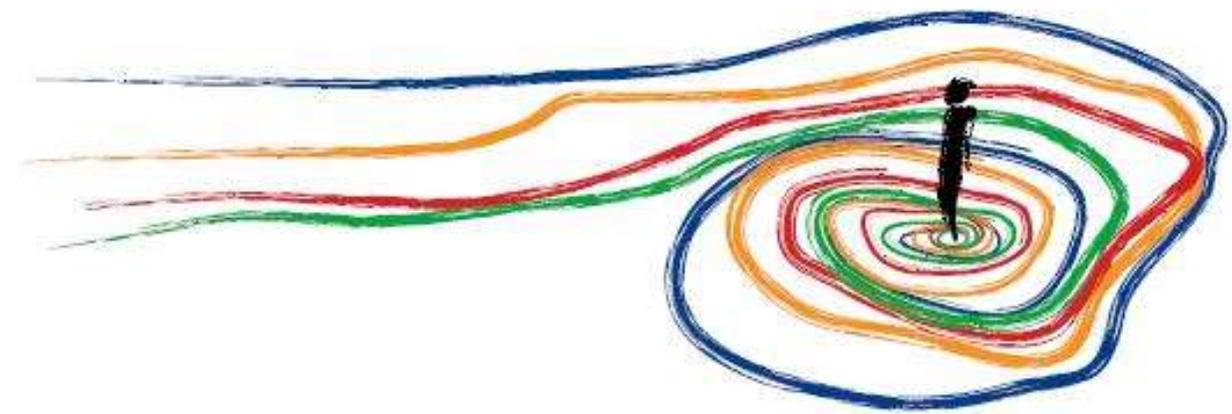
Question: Why do elderly people living in one of the poorest and most hazard-prone districts of Manila sleep more soundly at night these days?

Pillar 4: Preparedness to respond



Rizal council member Arnel Alvarez

Answer: Because this man and his team have extensively mapped the local hazards **and** took consequent action based on that information. All houses in Rizal which are home to infirm elderly people are badged with a colour-coded sign outside signifying a resident who is in need of help in the event of evacuation



Thank you

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