Disaster Risk Management

When, Why & How

Ashton Barnett-Vanes 3/12/12

'The systematic process of using administrative directives, organizations, and operational skills and capacities to implement strategies, policies and improved coping capacities in order to lessen the adverse impacts of hazards and the possibility of disaster. 'ISDR

Great East Japan Earthquake. March 11 9.0 Magnitude Earthquake. North-East Japan



15,853 Dead

6,023 Injured

3,282 Missing.

(1 Year on)

Structure of Session

11.40-12.20

- Definitions & Main Institutions
- Disaster Cycle
- Disaster risk reduction Yokohama
 - HFA
 - Post-HFA
- Emergency Risk Management Concepts
 - Application

12.20-12.30

12.30-13.00

- Break
- Case Studies: Bangladesh 1970 2000
 - : Earthquake Scenario 3 Stage

Definitions

Disaster

A serious disruption of the functioning of a community or a society involving widespread human, material, economic or environmental losses and impacts, which exceeds the ability of the affected community or society to cope using its own resources.

Resilience

The ability of a system, community or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions.

Hazard

A dangerous phenomenon, substance, human activity or condition that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.

Risk

The combination of the probability of an event and its negative consequences.

Notable Institutions

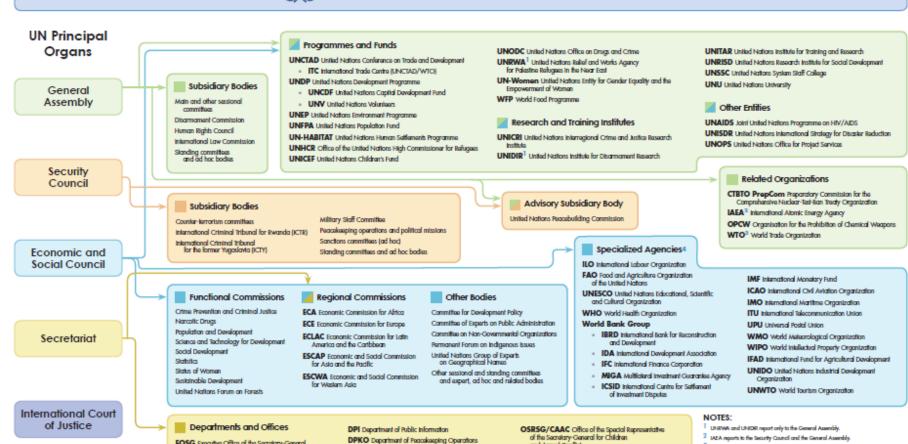
- Whenever there is a disaster or a humanitarian catastrophe, the UN is on the ground providing relief, support and assistance.
- The World Food Programme (WFP) and the Food and Agriculture
 Organization of the UN (FAO), make food available.
- The Office of the UN High Commissioner for Refugees (UNHCR) and the International Organization for Migration (IOM), camps and other facilities are set up and maintained for those who have been forced to leave their homes.
- Delivery of humanitarian aid whether provided by members of the UN system or humanitarian bodies eg International Federation of Red Cross and Red Crescent Societies.
- The World Health Organization (WHO) helps protect those displaced by natural and man-made disasters from the ravages of disease.

Notable Institutions

- The United Nations Children's Fund (UNICEF), with the aid of such bodies
 as the International Save the Children External Link Alliance, provides
 education for children who have been uprooted by calamity.
- The United Nations Development Programme (UNDP) is there to ensure that the recovery process has a firm and stable footing.
- The humanitarian and disaster-relief efforts of the UN system are overseen and facilitated by the Office for the Coordination of Humanitarian Affairs (OCHA), led by the United Nations Emergency Relief Coordinator.
- OCHA provides the latest information on emergencies worldwide, and launches international "consolidated appeals" to mobilize financing for the provision of emergency assistance in specific situations.



The United Nations System



EOSG Executive Office of the Secretary-General

DESA Department of Economic and Social Affairs

DFS Department of Reid Support

Trusteeship

Council

DGACM Department for General Assembly and Conference Management

DM Department of Management

DPA Department of Political Affairs

DSS Department of Safety and Security

OCHA Office for the Coardination of Humanitarian Affairs

OHCHR Office of the United Nations High Commissioner for Human Rights

OIOS Office of Internal Oversight Services

OLA Office of Legal Affairs

OSAA Office of the Special Adviser on Africa

and Armed Conflict

UNODA Office for Disarmament Affairs

UNOG United Nations Office at Geneva

UN-OHRLLS Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States

UNON United Nations Office at Natrobl

UNOV United Nations Office of Vienna

- WTO has no reporting abligation to the General Assembly (GA) but contributes on on. ad-hac basis to GA and ECOSOC work inter also an finance and developmental issues.
- Specialized agencies are autonomous arganizations working with the UN and each other firough the coordinating machinery of ECOSOC at the intergovernmental level, and through the Chief Esscutives Board for Coordination (CES) at the inter-secretariat level. This section is listed in order of establishment of these organizations as specialized
- 5 The Trusteeship Council suspended operation on 1 November 1994 with the independ of Palau, the last remaining United Nations Trust Territory, on 1 October 1994.

This is not an official document of the United Nations, nor is it intended to be all-inclusive.

opencies of the United Nations

Don't forget the n/iNGO's

MSF

MERLIN

ICRC, Red Cross/Crescent Movement

International Medical Corps

International rescue commitee

The list goes on.....

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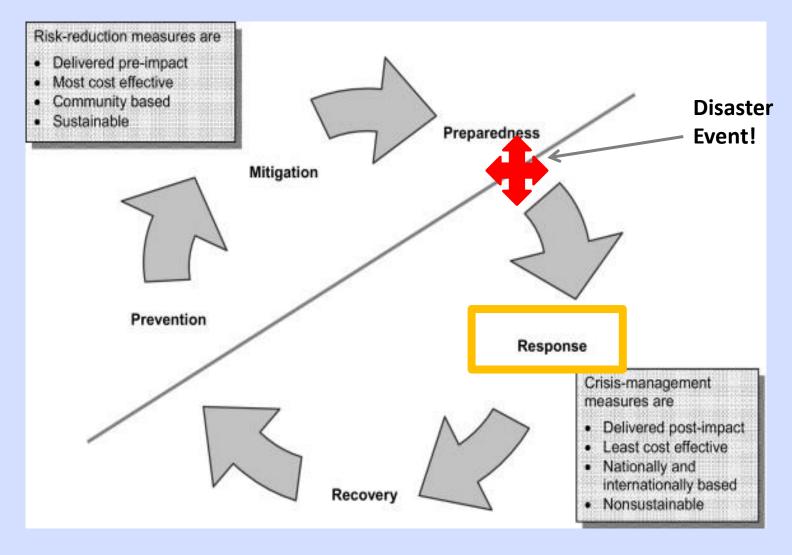
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Disaster Cycle



Response

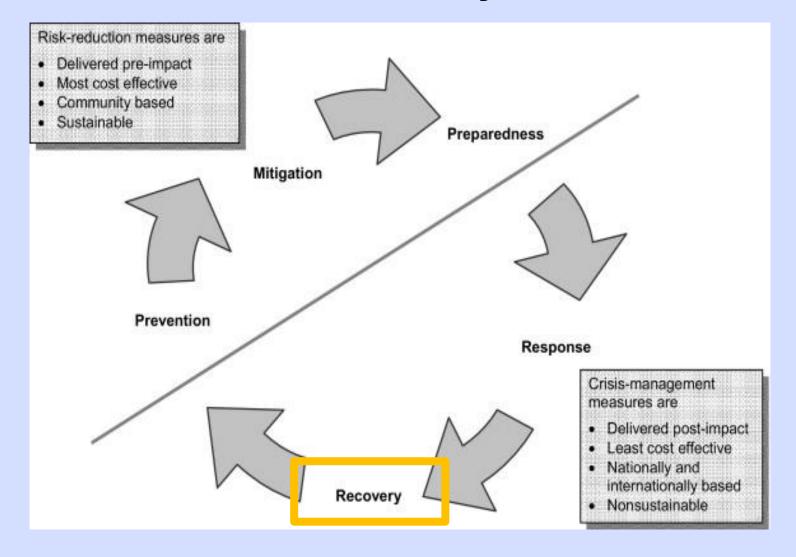
Definition

 The provision of emergency services and public assistance during or immediately after a disaster in order to save lives, reduce health impacts, ensure public safety and meet the basic subsistence needs of the people affected.

Examples

- Disaster Medical Assistance Teams (DMATs) arriving at the disaster zone and assisting with relief efforts.
- Hospital surge, with increased bed capacity and staff
- Financial appeals
- Foreign medical team support

Disaster Cycle



Recovery

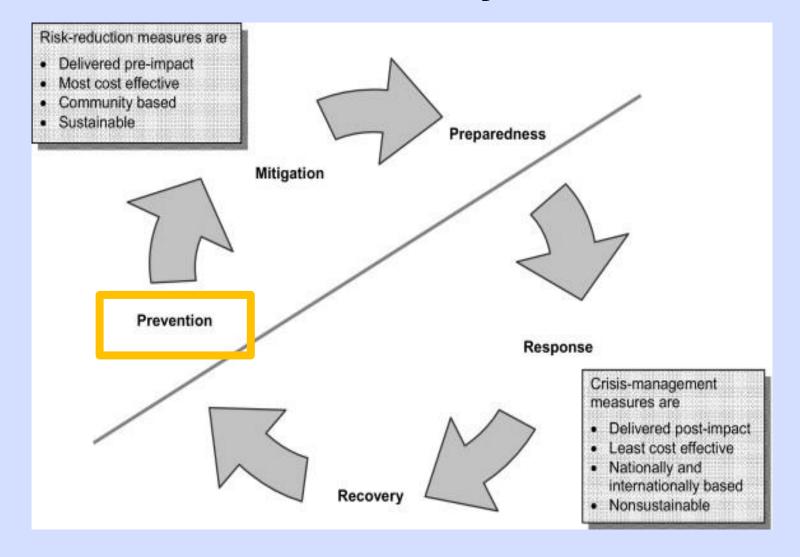
Definition

 The restoration, and improvement where appropriate, of facilities, livelihoods and living conditions of disaster-affected communities, including efforts to reduce disaster risk factors.

Examples

- Reconstruction of civil infrastructure
- Repair of damaged facilities (power, water etc)
- Resumption of societal activity (Schools open, people return to work).

Disaster Cycle



Prevention

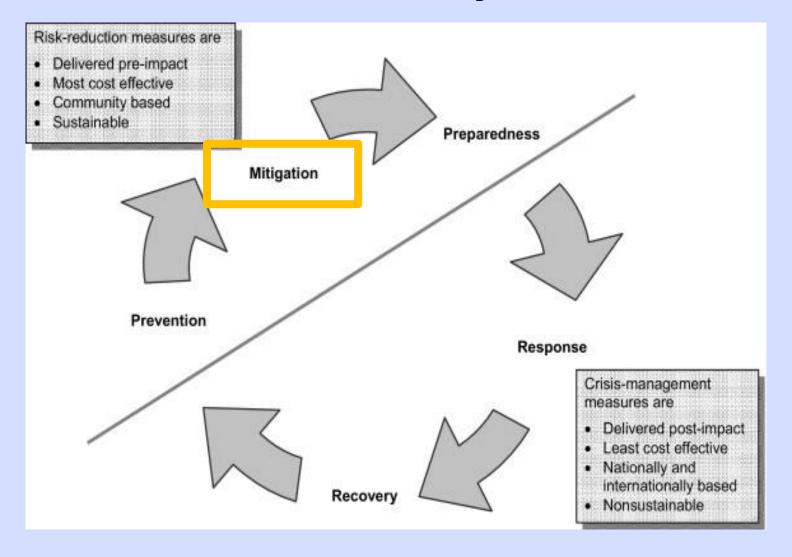
Definition

 The outright avoidance of adverse impacts of hazards and related disasters.

Examples

- Dams or embankments that eliminate flood risks
- Land-use regulations that do not permit any settlement in high risk zones
- Seismic engineering designs that ensure the survival and function of a critical building in any likely earthquake

Disaster Cycle



Mitigation

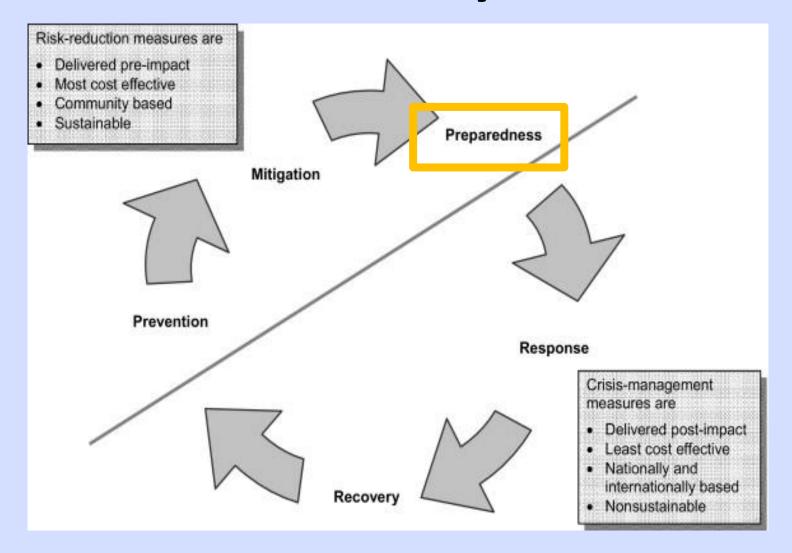
Definition

 The lessening or limitation of the adverse impacts of hazards and related disasters.

Examples

- Engineering techniques and hazard-resistant construction.
- Improved environmental policies and public awareness campaigns.

Disaster Cycle



Preparedness

Definition

 The knowledge and capacities developed by governments, professional response and recovery organizations, communities and individuals to effectively anticipate, respond to, and recover from, the impacts of likely, imminent or current hazard events or conditions.

Examples

- Analysis of disaster risks and good linkages with early warning systems
- Contingency planning
- Stockpiling of equipment and supplies
- The development of arrangements for coordination
- Evacuation and public information
- Associated training and field exercises.

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Disaster Risk Reduction

Definition

 "The conceptual framework of elements considered with the possibilities to minimize vulnerabilities and disaster risks throughout a society, to avoid (prevention) or to limit (mitigation and preparedness) the adverse impacts of hazards, within the broad context of sustainable development'

Yokohama Strategy 1994

The Yokohama Strategy adopted in 1994 provided landmark guidance on reducing disaster risk and the impacts of disasters, based on a conference of all the UN member states, held in Yokohama Japan.

- The adopted Yokohama Strategy and related Plan of Action for the rest of the Decade and beyond:
 - **A.** Will note that each country has the sovereign responsibility to protect its citizens from natural disasters;
 - **B.** Will give priority attention to the developing countries, in particular the least developed, land-locked countries and the small island developing States;
 - C. Will develop and strengthen national capacities and capabilities and, where appropriate, national legislation for natural and other disaster prevention, mitigation and preparedness, including the mobilization of non-governmental organizations and participation of local communities;
 - **D.** Will promote and strengthen subregional, regional and international cooperation in activities to prevent, reduce and mitigate natural and other disasters, with particular emphasis on:
 - Human and institutional capacity-building and strengthening;
 - Technology sharing, the collection, the dissemination and the utilization of information:
 - Mobilization of resources.

The Hyogo-framework for action (HFA) 2005-2015

- World Conference on Disaster Reduction, held in Kobe, Hyogo, Japan.
- Its goal is to substantially reduce disaster losses by 2015 - in lives, and in the social, economic, and environmental assets of communities and countries.

• 168 Governments adopted the 10year plan to make the world safer from natural hazards.



Hyogo Framework for Action 2005-2015:

Building the Resilience of Nations and Communities to Disasters

The Hyogo-framework for action (HFA) 2005-2015

HFA Priorities for Action

- Priority Action 1: Ensure that disaster risk reduction is a national and a local priority with a strong institutional basis for implementation.
- **Priority Action 2**: Identify, assess and monitor disaster risks and enhance early warning.
- **Priority Action 3**: Use knowledge, innovation and education to build a culture of safety and resilience at all levels.
- Priority Action 4: Reduce the underlying risk factors.
- **Priority Action 5**: Strengthen disaster preparedness for effective response at all levels.

Post-HFA Discussions



Towards a post-2015 DRR Framework

- Requested by the UN General Assembly (GA) Resolution A/RES/66/199
- UNISDR is facilitating a multistakeholder consultation process
- Builds on the Hyogo Framework for Action 2005-2015 (HFA) Building the Resilience of Nations and Communities to Disasters.
- Expected to be adopted by the World Conference for Disater Risk Reduction and endorsed by the GA in 2015.

For more information, visit:

http://www.preventionweb.net/posthfa/







World Conference on Disaster Risk Reduction (WCDRR) in 2015 in Japan.



Post-2015 Framework for disaster risk reduction and resilience will be considered by the UN General Assembly in 2015 for endorsement.

UTLINE OF HFA2

Special meeting with Member
States to review outline of the

Special meeting with Member States to review outline of the Framework. Continued development in consultation with all stakeholders.

2012 2013 2014 2015

Secretary-General Report to UN General Assembly (Nov)

drawing on the HFA Mid-Term Review (2010-2011).

Ministerial Conferences and Regional Platforms on Disaster Risk Reduction

> Asia (Indonesia - Oct) Americas (Argentina - Nov) Europe (Croatia - Oct) Pacific (New Caledonia - Sept)

Rio +20: UN Conference for Sustainable Development (Rio de Janeiro - June) Secretary-General Report Secreta
to UN General Assembly to UN G

Ministerial Conferences and Regional Platforms on Disaster Risk Reduction

> Africa Arab States

Secretary-General Report to UN General Assembly

Ministerial Conferences and Regional Platforms on Disaster Risk Reduction Secretary-General Report on WCDRR and recommendation for post-2015 Framework to be adopted

Post 2015 Development Consensus - MDGs and SDGs

Vanious V Managhas 200

Note: These reflect the key milestone events for disaster risk reduction. Other events and consultations meetings will also be part of the process. For more information on UNSDR, visit: http://www.unieds.org

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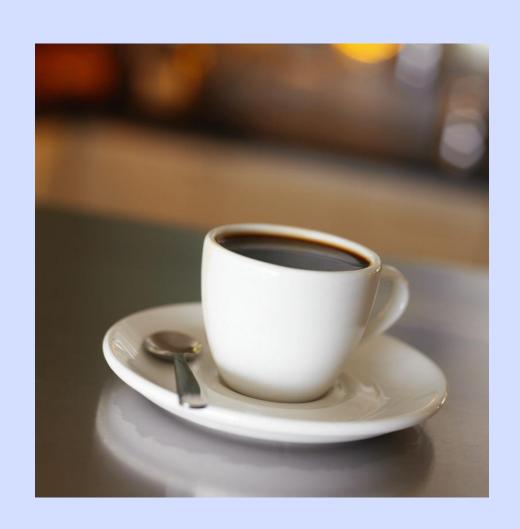
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Emergency Risk Management

Definition

- The organization and management of resources and responsibilities for addressing all aspects of emergencies, in particular preparedness, response and initial recovery steps.
- Concept: Can be any emergency, not just a 'Disaster'.
- However the same rules should be applied including the same phases / cycle.

5 Min Break!



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Case Study

Bangladesh Floods

- In 1970, the world's most devastating cyclone to date claimed approximately 500 000 lives in Bangladesh, and another in 1991 claimed around 140 000 lives.
- Since 1991, the government with the support of the UN, including WHO and WMO, has established;
 - 1. Early warning systems
 - 2. Shelters along coastal areas
 - 3. Search and rescue teams and first-aid training and equipment.
- Bangladesh now has the capacity to evacuate hundreds of thousands of people from the path of floods and cyclones.
- When Sidr, a very strong, Category-4 cyclone struck Bangladesh in November 2007, the devastation it wreaked was widespread. Sidr was of similar strength as the cyclone of 1991, but its death toll, 3000 lives, was much lower.

Case Study Exercise

- Megacity Earthquake.
- 2 Groups: Responders and the Managers (Health Orientated).
- Three phases of information with 5 min group discussion at each point.

At each point; list your 5 priorities.

Case Study Exercise

 1. 9.0 Richter Scale earthquake in suburb of >20 million megacity.

(5 mins)

 2. Communications (Phone, Internet) are down at disaster zone. Travel by road vehicle is impossible.
 (5 mins)

 3. Aftershock has caused significant damage to the central city region.

(5 mins)

Further reading

- http://www.who.int/hac/techguidance/preparedness/en/inde x.html
- http://www.preventionweb.net/english/?logotext
- http://www.unisdr.org/
- http://www.doctorswithoutborders.org/news/allcontent.cfm?
 id=111

Thank you and good luck!