



RESILIENCE:

Emerging definitions and perspectives from practices
NATURAL DISASTERS
Economics and Development

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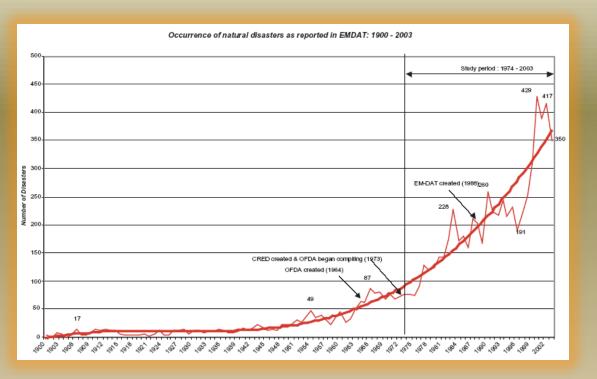
Disasters are growing ...



75% of the global population is exposed to disaster provoked by drougths, treat ciclones, earthquakes or floods...

More than 4000 recorded disasters from 2000 to 2009

Over the last 20 years disasters have killed 1,3 M people, affected 4,4 B and resulted in economic losses of \$2 trillion. Disaster losses are equal to 25 times the ODA over the same period





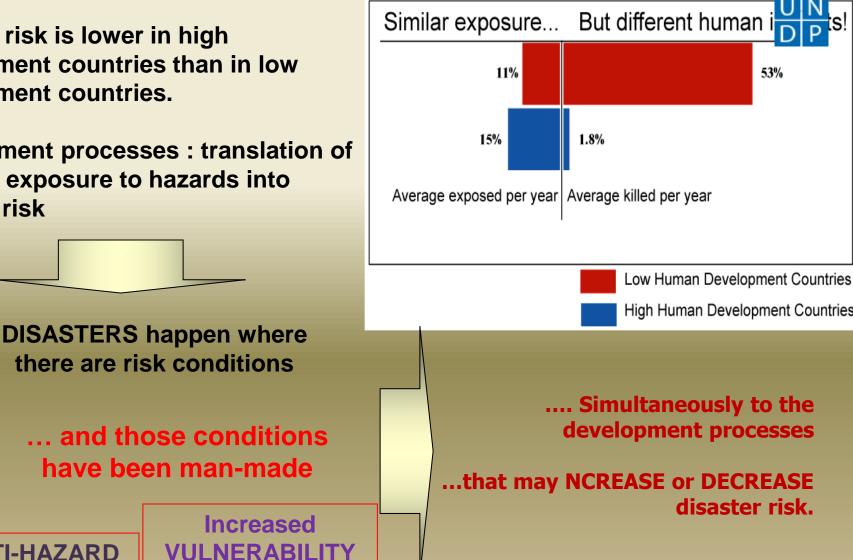
What does it mean in terms of setbacks of development and missed development opportunities?

Development and disaster risk are linked



Disaster risk is lower in high development countries than in low development countries.

Development processes: translation of physical exposure to hazards into disaster risk

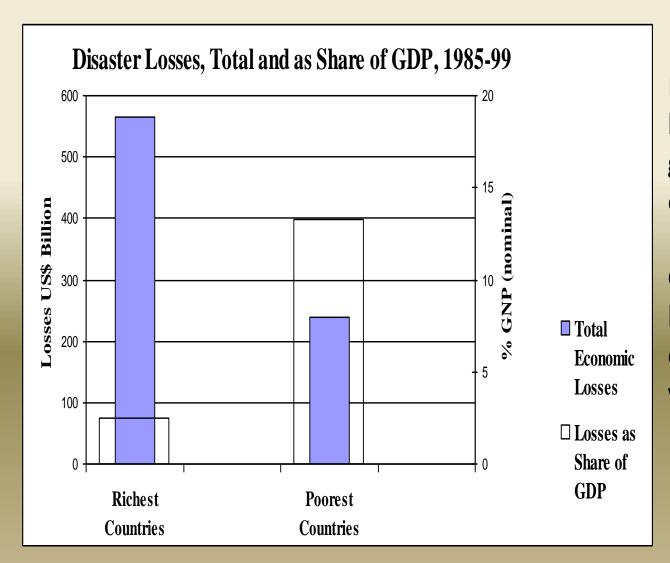


MULTI-HAZARD

Context

disaster affectation deep inequalities (1)





Economic losses: growing economies

GDP impact: low income countries 2% vs. 15%

... how development may increase risks



URBANIZATION: unplanned and rapid growin social exclusion and poverty, migrations.

Poorly planned INVESTMENTS: critical infrastructure as nuclears, hydro-reservoires & flooding settlements; turistic investment and mangroves or coral reef, globalization and marginalization of rural areas....

GOVERNANCE/ Non-inclusive growth, recurrent crisis, and distribution of social capital economic: Decisions affecting resource distribution, Policy and Institutional: Policies and plan for DRR, institutiones capable of manage risks

Normative: Application of law and normatives (building codes, land us planning, watersheed management, fiscal policies, regulation of prices, etc. Social trust and gov. legitimacy

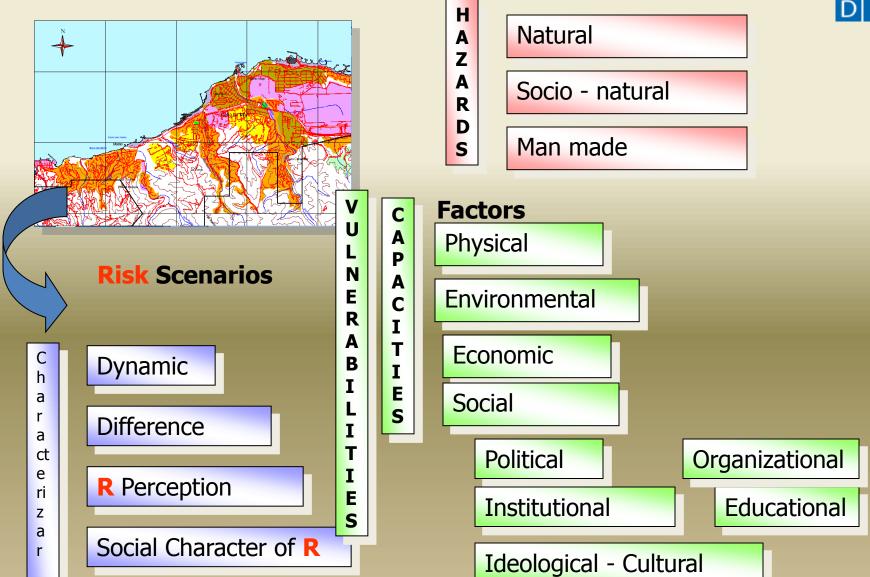
Environmental management and CLIMATE CHANGE

Links between economic growing, consum paterns and global warming. Less developed countries has a lower adaptation capacity and are more vulnerable to the effects of climate changes

Modification of meteorilogical patterns to increase frequency and variability of extreme weather

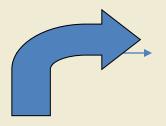
RISK





RISKS





MULTI HAZARD CONTEXT

- Seismic and volcanic activities
- Cyclones
- Floods
- Landslides
- Coastal Erosion
- Drought ...

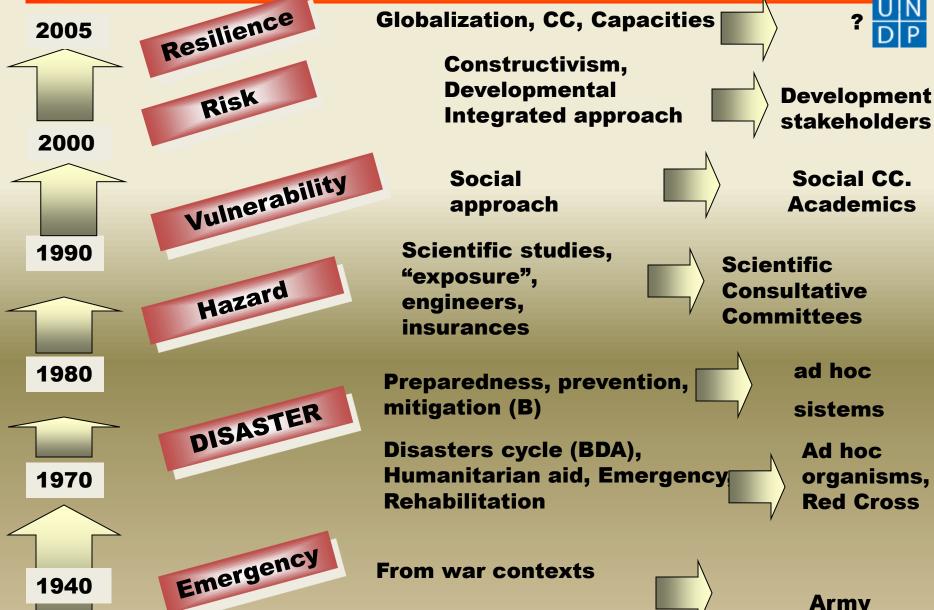
INCREASING VULNERABILITY

- Inappropriate land use planning
- Environmental degradation
- Inequalities and economic dependency
- Weak social contract/weak organization
- Deficient infrastructure
- Weak administrative systems

BAD DEVELOPMENT PATTERNS

EVOLUTION OF DISASTER CONCEPTS







1970

Hazard: Earthquake Hazard: Earthquake

Year: 1971 Year: 1972

Intensity: 6,6 Intensity: 6,2

Context: urban Context: urban

Fatalities: 65 Fatalities: 11,000

Place: San Francisco Place: Managua



2010

Hazard: Earthquake Hazard: Earthquake

Year: Year: 2010

Intensity: 8,8 Intensity: 7,3

Duration: 3' Duration: 35"

Context: urban Context: urban

Fatalities: +- 500 Fatalities: 300,000

Afec. GDP: 17% Afec. GDP: 120%

Place: Place: Haiti

Implications in our approach (DRR)



1. Move from a reactive to a preventive model

Resilience involve anticipation to the shock

2. Connect dots: integrated approach

Linkages with CC, poverty, governance, conflict

3. Anchor the solutions on development

From the extraordinary to the ordinary/day to day basis

4. Turn on disasters/shocks on opportunities for Transformation

 Take advantage of the momentum for change and transform. Resilient recovery

5. Strengthen your strengths and weak your weaknesses

Resilience reinforce the idea of focus on (existing) capacities.

6. Empower people, empower groups, empower institutions,

 Resilience is inside individuals/societies, it is more people centered, relies on a principle of subsidiarity

examples of programatic interventions



- 1. Colombia (women as agents of transformation)
- Bangladesh (institutional resilience)
- 3. Ecuador (securing livelihoods)
- 4. Indonesia/Mozqmbique (preparedness and early warning)

What UNDP could do?



- 1. Provide policy advice, facilitate learning and interchange of experiences
- 2. Accompany the process of institutional change/transformation, facilitate the connection
- 3. Support governance for DRR and Rec (nal and local level) and build institutional capacities on preparedness, early recovery and recovery
- 4. Support the gov. to turn on the disaster into opportunity (assessment & strategic planning for (early) recovery) bridging the hum/development, incorporating development principles into Hum.

BCPR-Funded Portfolio, ECIS, 2004-13

U N D P

- Thematic Area
- Disaster Risk Reduction
- Recovery/Response

Funding 2004-13

- \$ 22,181,318
- \$ 6,629,165

Financial Architecture



The seed funding:

- CPR thematic trust fund, which provides the backbone for BCPR's work. For DRR in ECIS, TTF funds are allocated according to a prioritization following conflict and disaster risk (Tajikistan, Kyrgyzstan, Georgia, Kosovo, BiH, and Central Asia at regional level).
- This year Armenia and Moldova were additionally designated for disaster risk. TTF has been shrinking, which has made serving even the prioritized countries increasingly difficult.

In the event of a disaster, funding is provided for immediate early recovery needs (TRAC 3 Category II) and recovery (as in the Van project).

TTF requested on the basis of :

- regional and national capacity development actions for priority countries in Central Asia Western Balkans and
- reasonable expectation of own support in the event of significant govt financing.

Thematic Focus Areas



1. Enabling environment:

- national and local DRR strategies,
- National DRR Platforms

2. Risk assessment and information management:

- National Disaster Observatory,
- national and local risk assessment,
- support to command centers and early warning systems,
- ICT applications

3. Capacity development:

- capacity and assessment;
- training programmes and facilities,
- networks

4. Disaster prevention:

- integration of DRR/CRM into development frameworks,
- structural and non-structural mitigation actions,
- delivery through area-based development

5. Disaster preparedness:

- response coordination mechanisms, search and rescue,
- community-based preparedness

6. Community of practice:

- systematization of knowledge,
- exchange of capacity among practitioners





Thank you for your attention. www.undp.org.tr