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Disaster Risk Financing and Insurance

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OUTLINE

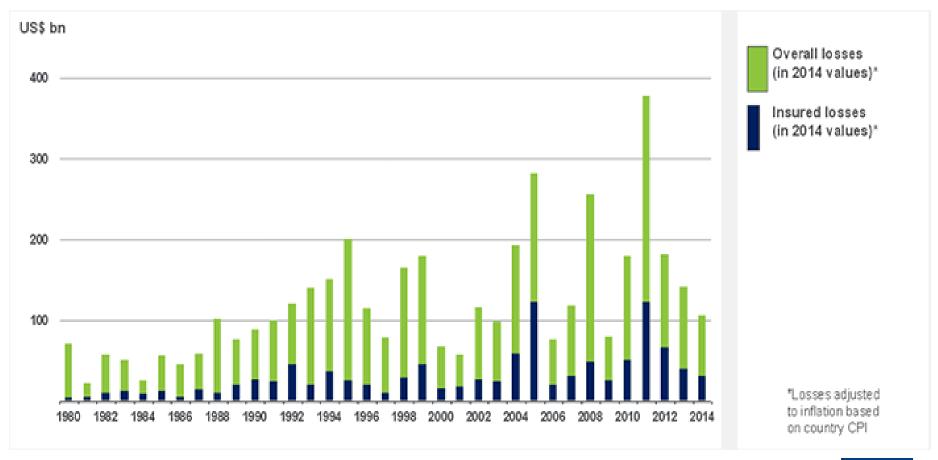
The challenge

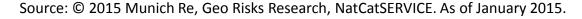
Menu of solutions

Improving outcomes

The way forward









2004-2013 2014 yearly average No. of country-level disasters 271 369 No. of countries affected 94 118 99,740 No. of deaths 6,434 No. of people affected 102 mil. 175 mil. Economic damages (US\$) 147 bil. 85 bil.

TOP 10: Number of reported natural disasters by continent

United States 17
Americas 61

Per Region

Per Country

Mexico
8

Africa

France 6 41 Europe 28

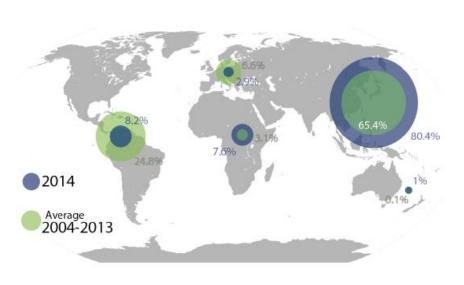
Nepal 6 10 Japan Asia 12

Philippines 11

Indonesia

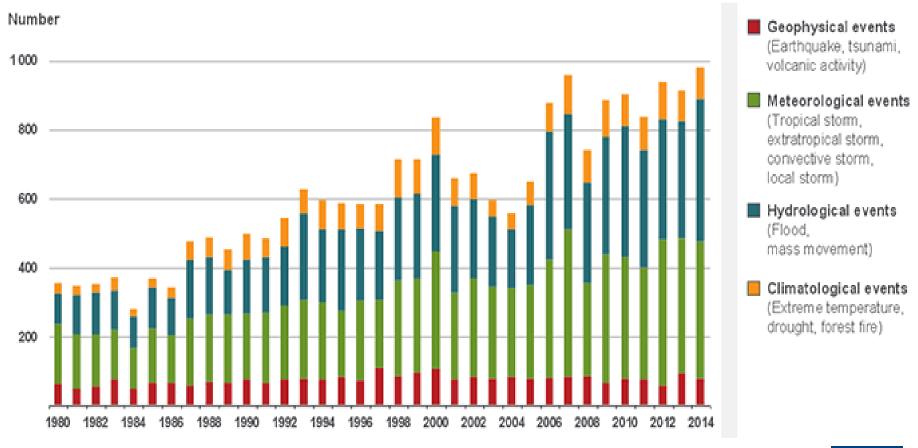
Poceania

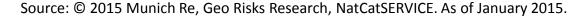
Percentage of people killed by continent



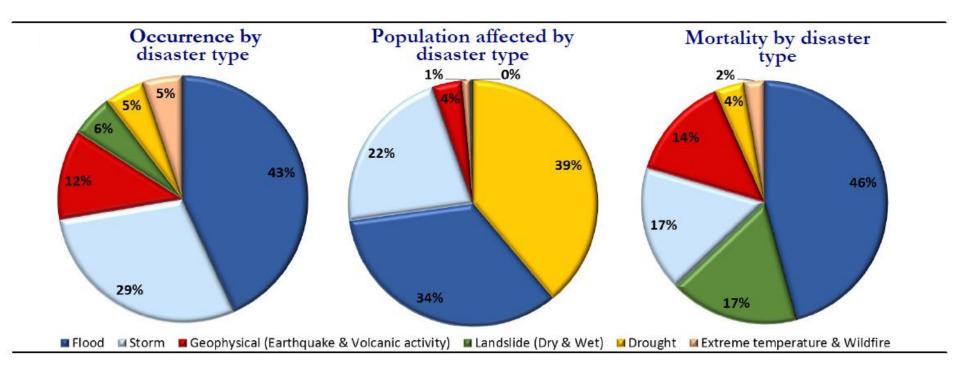
Source: Centre for Research on the Epidemiology of Disasters (CRED)







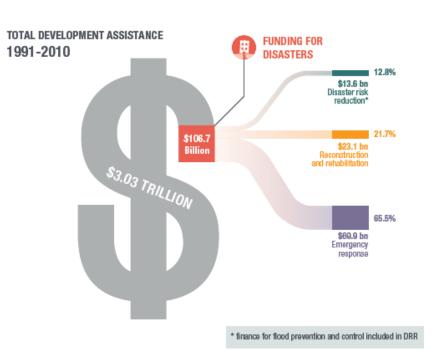




Source: Centre for Research on the Epidemiology of Disasters (CRED)



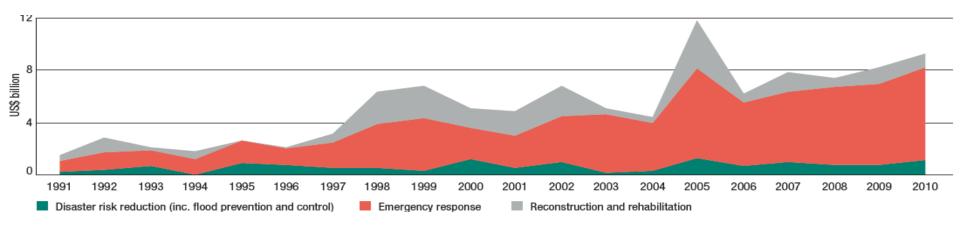
FUNDING FOR DISASTER IS A FRACTION OF DEVELOPMENT ASSISTANCE



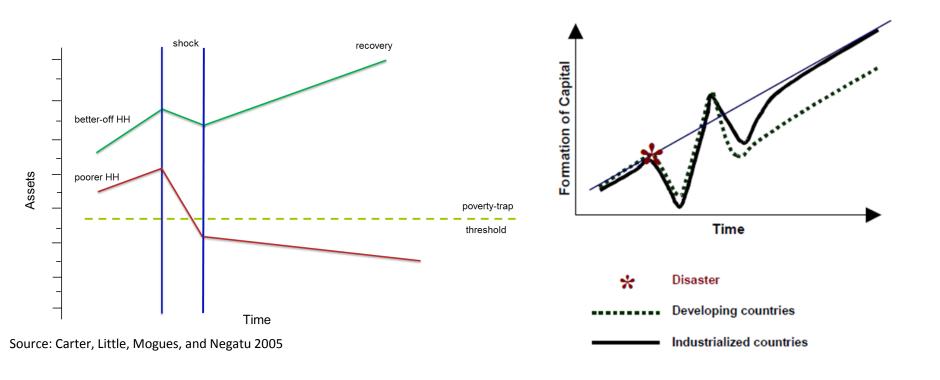


Source: Finance for Reducing Disaster Risks, ODI and UNDP

: The share of DRR in international aid for disasters, 1991 to 2010 (constant 2010 US\$)



DISASTER RISK MANAGEMENT IS PART AND PARCEL OF DEVELOPMENT ACTIONS



Without a risk-sensitive approach, development cannot be sustainable.



RATIONALE FOR DISASTER RISK MANAGEMENT & DISASTER RISK FINANCE

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Losses = Risk factor

Risk = Hazard x Exposure x Sensitivity

Capacity

where represents Vulnerability

Recovery = Finance factor
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The biggest financing challenge is availability of liquidity at the onset of a disaster

Extent of damage > Available Finance



RATIONALE FOR DISASTER RISK MANAGEMENT & DISASTER RISK FINANCE



- Ex-ante
 - Development planning, programs and projects
 - Existing vulnerability of populations and their infrastructure
- Ex-post
 - Emergency response
 - Disaster recovery and reconstruction

Avoid diverting funds from budgets or from already disbursed development loans to finance post-disaster expenses



RATIONALE FOR DISASTER RISK MANAGEMENT & DISASTER RISK FINANCE

- Reconstruction of public assets and infrastructure
- Targeted financial assistance
 - clear rules regarding post-disaster financial compensation
 - promoting public confidence in country financial strategies while aligning incentives and reducing moral hazard
- Ensuring the soundness and resilience of the financial sector with respect to disaster risks
 - regulation, business continuity planning, and stress testing
- Ensuring the optimal allocation of resources for Disaster Risk Management
 - assessment of the cost-effectiveness of major public financial investments in disaster risk reduction projects

Achieving financial resilience is thus a critical component of effective Disaster Risk Management

ADB's INTEGRATED DISASTER RISK MANAGEMENT APPROACH

Outcome

Principles/requirements

Strengthened disaster resilience

Reduced disaster risk in the immediate and long term Enhanced residual risk management for effective disaster response

Crosscutting actions

Integrate DRR into development

Many development actions carry potential disaster risk but also provide opportunities to strengthen resilience

Address the DRM/ CCA intersection

DRM investments
may underperform
and ultimately even
exacerbate disaster
risk if climate change
is ignored

Develop DRF capabilities

Levels of expenditure on DRR and residual risk management should reflect expected long-term social and economic returns

IMPLEMENTATION THROUGH CROSS - CUTTING ACTIONS

Institutionalizing IDRM

Capacity development and knowledge solutions

Investments in disaster resilience

Stakeholder engagement

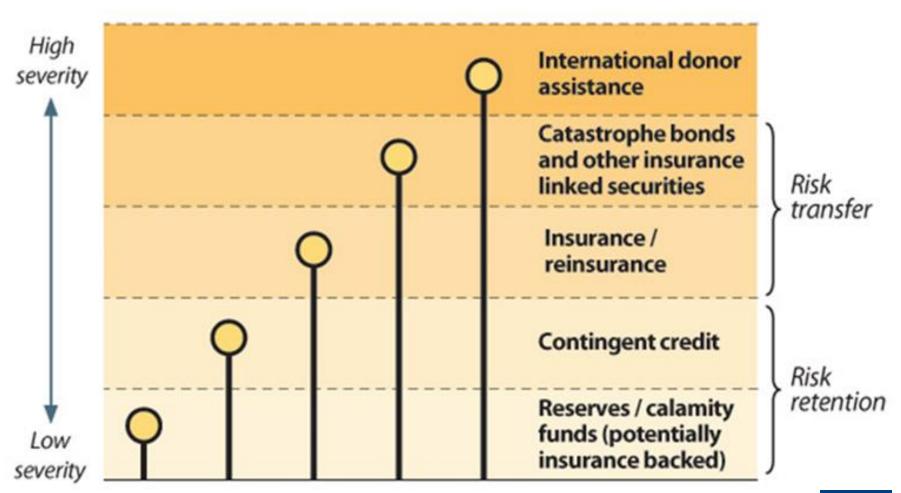
Outcome

Reduced disaster risk in the immediate and long term

Enhanced residual risk management for effective disaster response

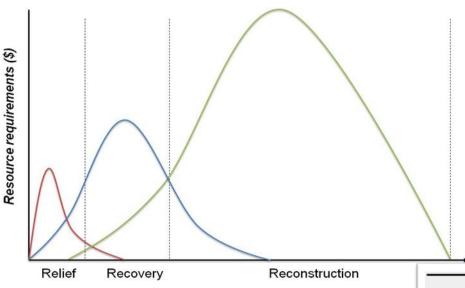


MENU OF SOLUTIONS

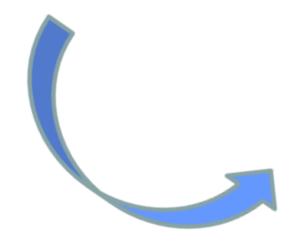


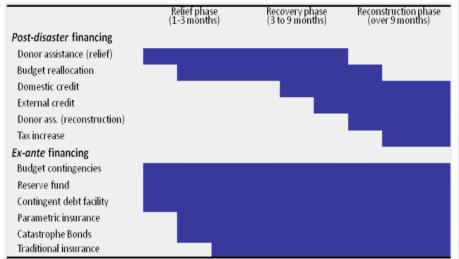


MATCHING FUNDING NEEDS



The challenge is how to utilize a wide range of instruments to address the costs of disasters and be sure that they are available if and when needed







Source: Adapted from the World Bank

COSTS AND BENEFITS	
Instruments	Indicative Cost

Donor support (relief)

Budget contingencies

Budget reallocations

Parametric insurance

Domestic credit (bond issue)

Reserves

issue)

Donor support (recovery & reconstruction)

Contingent debt facility (e.g., CAT DDO)

External credit (e.g. emergency loans, bond

ART (e.g., CAT bonds, weather derivatives)

Instruments	Indicative Cost (multiplier)

0-1

0-2

1-2

1-2

1-2

1-2

1-2

1-2

2 & up

2 & up

Disbursement

(months)

1-6

4-9

0-9

0-1

0-1

0-1

3-9

3-6

1-2

1-2

Amount of funds available

Uncertain

Uncertain

Small

Small

Small

Medium

Medium

Large

Large

Large Source: Ghesquiere and Mahul (2010)

ROLE OF THE INSURANCE SECTOR

- Rationally allocate capital, in respect
- to disaster risks (at even very extreme probabilities)
- Reduce overall risk and encourage by tailoring insurance conditions and standards to risk behavior
- Requires defined resilience as a requirement of access to the contingent capital that an insurance policy represents.



ISSUES GOING FORWARD

- Inability to put in place pre-requisites for an efficient catastrophe risk financing instrument
- Undeveloped insurance sector
- Excessive reliance on the government as the reinsurer of last resort
- Lack of risk awareness at the government level and among public
- Lack of local technical knowledge and experience



ISSUES GOING FORWARD

- Insurance represents a relatively small proportion of the financial system.
 - Investments and Securities under the rules of stock exchanges and other authorities
- Financial sector beyond non-life insurance generally does not take adequate account of natural disaster risk, even in highly exposed locations.
- Natural disasters is on financial regulators radar screen but lack of financial inclusion is also seen as a major factor in increasing the levels of vulnerability to natural hazard.
- Integrating disaster risk and resilience into the financial system



ADB'S ONGOING AND PLANNED ACTIVITIES

- Support for the development of enabling environments e.g., through
 - Strengthening technical knowledge and understanding in government
 - Assessments of disaster risk, the fiscal burden posed by disasters and funding gaps
 - Analysis of demand and supply constraints to the development of market-based risk transfer instruments
- Support for the development of comprehensive DRF strategies and individual products –e.g., through support for:
 - Pilot projects
 - Establishment of risk pools and innovative risk transfer vehicles







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