Promoting Disaster Risk Reduction in Recovery and Reconstruction after Disasters

Jerry Velasquez
Senior Regional Coordinator
United Nations International Strategy for Disaster Reduction (UNISDR)

Disasters are...
Disaster risk is intensively concentrated

<table>
<thead>
<tr>
<th>Absolute Risk [Killed per year as modelled]</th>
<th>Relative Risk [Killed per million per year as modelled]</th>
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<tbody>
<tr>
<td>China</td>
<td>Dominica</td>
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<td>India</td>
<td>Vanuatu</td>
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<td>Bangladesh</td>
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<td>Indonesia</td>
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<td>Philippines</td>
<td>El Salvador</td>
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<td>Islamic Rep. of Iran</td>
<td>Bangladesh</td>
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<td>Dem. Rep. of Congo</td>
<td>Uzbekistan</td>
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<td>Solomon Islands</td>
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</tbody>
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... is increasing globally

**Increase in global flood risk 1990-2007**

- **Mortality**
  - Risk
  - Exposure
  - Vulnerability

- **Economic loss**
  - Risk
  - Exposure
  - Vulnerability
and..... hits small countries hardest.

Cumulative net capital formation (NKF) from 1970 to 2006, in Millions of Constant 2000 USD, with and without the effect of economic disaster loss.

... driven by economic growth and weak governance.

Exposure to earthquakes
Number of people per year

Modelled fatalities from earthquakes
Average number of people killed per year, percentage
... leading to falling mortality – but rising economic loss risk

Cyclone mortality risk
Percent change (East Asia and the Pacific (EAP))

Flood economic loss risk
Percent change (OECD countries)

- Exposure
- Risk
- Vulnerability
- GDP per capita

Risk – the future.
Synchronic failures and sequential crisis?

Populations and economies exposed to tsunamis

Absolute: people exposed per year

Absolute: GDP exposed per year, billion US$
Strategies to Reduce Exposure

- Land use planning, urban planning, spatial planning
- Engaging private sector
- Post-disaster recovery and reconstruction

Post Disaster Recovery

- Community focused recovery
- Proper resourcing
- Considering Social, Cultural Capital and Heritage
- Improve Post Disaster Land Use and Construction Practices
COMMUNITY PARTICIPATION LET THE PEOPLE INVOLVED DIRECTLY IN THE RECONSTRUCTION. BY DOING THIS, TRANSPARENCY AND ACCOUNTABILITY WILL BE IMPROVED.
Ishinomaki-Shi, Miyagi-Ken

Disaster risk reduction is everybody’s business!

http://www.unisdr.org