Opportunities and Incentives to Increase the Resilience of People and ICT Infrastructure from Disasters

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Disasters and global challenges

Reported disasters, by global region, 1980-2009

ESCAP member States and associate members

East & N-E Asia
+900 events
+570,000 million $
+162,000 killed

South & S-W Asia
+1,283 events
+141,000 million $
+560,000 killed

Asia-Pacific Regional Multi-stakeholder Forum on Emergency Telecommunications,
Ulaanbaatar, Mongolia on 8 – 10 July 2011
Great East Japan Earthquake

Modified Mercalli scale

- I. Instrumental
- II. Weak
- III. Slight
- IV. Moderate
- V. Rather Strong
- VI. Strong
- VII. Very Strong
- VIII. Destructive
- IX. Violent
- X. Intense
- XI. Extreme
- XII. Cataclysmic

Photo Taken at Miyako City, Iwate Prefecture
Courtesy of Tarocho Fisheries Cooperative Association
Outline of this Presentation

Disasters and global challenges

Opportunities and incentives

Some available options

Some relevant work of IDD
Socio-economic impacts of disasters

- Macroeconomic effects
- Impact on livelihoods and poverty
- Impact on health and education
- Psychosocial impacts
- Gender impacts
- Socio-economic vulnerability to disasters
Fiji, annual fluctuations in GDP relative to the incidence of disaster, 1980-2008

2009-2011 HFA Progress review

Average score of progress

- Governance and institutional arrangements
- Risk identification and early warning
- Knowledge and education
- Underlying risk
- Preparedness and response

Global averages of progress against the HFA: average ratings on a score from 1 (minor achievement) to 5 (comprehensive achievement) as reported.

SOURCE: GAR 2011
Average progress of countries in all priority areas

SOURCE: GAR 2011
Risk governance capacity and World Bank country classification

Low capacity
- Low-income countries
- Lower-middle income countries
- Upper-middle income countries
- High-income countries

Medium-low capacity
- Low-income countries
- Lower-middle income countries
- Upper-middle income countries
- High-income countries

Medium capacity
- Low-income countries
- Lower-middle income countries
- Upper-middle income countries
- High-income countries

Medium-high capacity
- Low-income countries
- Lower-middle income countries
- Upper-middle income countries
- High-income countries

High capacity
- Low-income countries
- Lower-middle income countries
- Upper-middle income countries
- High-income countries

SOURCE: GAR 2011
Some available options

• Finance and National public investment planning systems

• National and local infrastructure investments

• Capitalizing on new technology

• Social protection mechanisms and building on cultural and social resilience, gender imperatives

• Regional cooperation
Forms of regional cooperation on disaster risk reduction

SOURCE: APDR 2010
Some relevant work of IDD

- **United Nations Conference on e-Government in Asia and the Pacific, 11-13 May 2011, Seoul, Republic of Korea.** - Establishing a linkage between public administration service delivery through the use of ICT (e-Gov) with Risk governance – more inclusive planning of these strategies.

- **Asia-Pacific Regional Forum on ICT Applications, 18-21 May 2011, Bangkok, Thailand** – session on ICT Applications for DRR & Communications; use of innovative technology for DRR and emergency response.

- **Expert Group Meeting towards Creative Reconstruction from Great East Japan Earthquake, 29-31 May 2011** – compiling lessons learned from this disaster for information sharing during follow up events.

- **Asia Pacific Regional Forum on Digital Inclusion for All, 21-23 June 2011 in Singapore** – looking at social dimensions of ICT and the apparent gaps in ensuring inclusiveness.

- **Asia-Pacific Gateway for Disaster Risk Reduction and Development** – a regional platform to mainstream DRR into Development.

- Regional collaborative mechanism to enhance emergency communications (Dr. Ram Tiwaree will speak on this)
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Thank you