Asia-Pacific Expert Group on Disaster-related Statistics

- Learning from experiences in Asia and the Pacific
- Bringing expertise on DRR and official statistics together
- Towards a statistical framework and regional core set
- Improvement of quality of disaster-related statistics and understanding of risks
Sendai Framework:

1. Reduce global disaster **mortality**
2. Reduce the number of **affected people**
3. Reduce direct disaster **economic loss**
4. Reduce disaster **damage to critical infrastructure** and **disruption of basic services**, among them health and educational facilities
5. Increase the number of countries with national and local disaster risk reduction strategies
6. Enhance international **cooperation**
7. Increase the availability of and access to multi-hazard early warning systems and disaster risk information

SDG Target 11.5 calls for making cities and human settlements inclusive, safe, resilient and sustainable

“By 2030 significantly reduce the number of deaths and the number of affected people and decrease the economic losses relative to GDP caused by disasters, including water-related disasters, with the focus on protecting the poor and people in vulnerable situations.”

**Why a statistics framework?**

- DRSF can be a tool for integrating and improving quality of statistics calculated coming from multiple sources and multiple government agencies in countries.

- DRSF helps to bridge the domains of disasters and risk management information on the one hand with the socio-economic statistics on the other.
Why pilot testing?

- Assess feasibility and applicability of current DRSF design in relation to data availability in countries
- Assess current relationships between official statistics in countries with emerging demands, such as the indicator monitoring frameworks

Pilot Study Participation

Disaster: "a serious disruption of the functioning of society, causing widespread human, material or environmental losses which exceed the ability of the affected society to cope using only its own resources" - UNISDR
Pilot Testing Timeline

Dec 2015
Pilot test inception capacity-building workshop

Apr – May 2016
1st Round of Data Collection

1st Round of Data Collection
Jan – Mar 2016

Oct 2016
4th Meeting of Expert Group

Initiate 2nd Round
Jun – Aug 2016

Pilot Study: what did we learn so far?
Disaster-related Statistics Framework (DRSF)

Statistics Summary Tables

Hazard exposure

Social-Economic Activity

Disaster Risk Reduction Activity

Surveys on Disaster Risk & Impacts

Reports from Discrete Events

Direct Impacts from Individual Events

1. Disaster occurrences and impacts
2. Summary statistics of earthquakes, mass movements, and volcanic activities
3. Summary statistics of floods, landslides, and volcanic outbursts
4. Summary statistics of convective storms, extratropical storms, and fog

01. Typhoon Yolanda
    Philippines, 2013

02. Tropical cyclone Winston
    Fiji, 2016

03. Typhoon Yolanda
    Philippines, 2013

03. Tropical cyclone Evan
    Samoa, 2012
Core Set of Statistics

HUMAN IMPACTS.02

BACKGROUND.01

03. MATERIAL IMPACTS

DISASTER RISK REDUCTION.05

04. ECONOMIC LOSS

Data organization for Pilot study (round 1, Jan.-Mar. 2016)

HUMAN IMPACTS.03

OCCURRENCES.02

BACKGROUND.01

04. MATERIAL IMPACTS

05. ECONOMIC LOSS
Sample lessons learned from 1st round

- Can continue to work with I RDR Hazard Classification at the family level, noting that scope of hazards within families may vary between national databases.

- In terms of material impacts, there are major impacts from natural hazards to agriculture, forests and fishing, and the environment.

- Variations in measurement approaches for certain key detailed items require further study: e.g. injuries/illnesses, medical cost, measurement of economic loss.

Next Steps for Pilot Study
Pending questions from the 1st round (untested topics)

Focusing in on a core set for statistics

Balancing flexibility with need for comparable statistics & indicators

Improving DRSF tables

Core Questions for further study with Expert Group:

- Impacts to vulnerable groups
  - "critical infrastructure"; "disruption of basic services"

- DRR Activity Expenditures

- Environmental Impacts

- Medical costs
Further testing... (2016)

**Disaster risk reduction activity expenditures**

1. Disaster Risk Prevention
2. Disaster Risk Reduction
3. Disaster Management
4. Disaster Recovery
5. General Government, Research & Development, Education Expenditure

**Scope of affected population measurement**

“People who have suffered injury, illness or other health effects; who were evacuated, displaced, relocated; or have suffered direct damage to their livelihoods, economic, physical, social, cultural and environmental assets.” (dead or missing may also be considered affected) - UNISDR, 2015

**Economic loss statistics**

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**VOLUNTEER EVACUATIONS**

- 1. Disaster Risk Prevention
- 2. Disaster Risk Reduction
- 3. Disaster Management
- 4. Disaster Recovery
- 5. General Government, Research & Development, Education Expenditure

**Disaster risk reduction activity expenditures**

- Linking hazard exposure
- And background statistics
Thank You

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