Session 7: Estimating direct material impact and economic loss from disasters

Session Organizers: ESCAP, UNDRR, ECE
Session Chair and Moderator: Teerapong Praphotjanaporn
Background

• Sendai Framework Global Target C/SDG 1.5.2 and 11.5.2
  • Direct economic loss attributed to disasters in relation to global GDP
• Accounting of physical damaged/lost assets and outputs is part of disaster impact assessments.
• “What prices” should be used to estimate direct economic loss in monetary terms?
• Price systems:
  • Basic prices, producer prices, and purchasers’ prices?
  • Original value, depreciated value, inflation-adjusted original value, “as-built” replacement cost, “improved” replacement cost?
Objectives

• To contribute knowledge and experiences of countries around the world towards internationally comparable measures of direct economic loss from disasters by
  • Revisiting and understanding policy demand for improved disaster-related economic loss information
  • Sharing current country practices and challenges in issues related to the valuation of direct economic loss from disasters
  • Summarizing policy demand, common country practices and challenges, and preliminary recommendations as inputs to the global framework for disaster-related statistics.
Format and structure

• Section I: 14:00 to 17:00 – in-person format
• Section II: 19:00 to 19:55 – hybrid format
Scope

- Focus on Agriculture (crops and livestock), and Housing and Infrastructure
- SDG indicator metadata: “direct economic loss” from disasters refers to the monetary value of total or partial destruction of physical assets existing in the affected area. Direct economic loss is nearly equivalent to physical damage.
- Indirect economic loss – discussed but not the primary focus
Section I, 14:00 – 17:00

- Panel discussion
  - Policy demand for improved disaster-related economic loss information
- Perspectives on economic loss estimation
  - FAO, OECD, IAEG
- Group discussion
  - What prices should be used to value direct economic loss in agricultural sector?
  - What prices should be used to value direct economic loss in housing and infrastructure sector?
  - Approaches to measuring direct economic loss for sudden-onset and slow-onset disasters
  - How to enhance the NDMA-NSO collaboration to improve economic loss estimation
### Section II, 19:00 – 19:55

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>19:00 – 19:10</td>
<td><strong>Introduction</strong></td>
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<td>• Session’s objectives and structure</td>
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<td>• Recap of Section I</td>
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<td>• Launch of Mentimeter questions</td>
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<td>19:10 – 19:45</td>
<td><strong>Expert Talk</strong> (25 mins)</td>
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<td>• Policy demand and preliminary recommendations towards improved</td>
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<td>measurement of economic loss from disasters</td>
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<td>• Q&amp;A (10 mins)</td>
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<td>19:45 – 19:55</td>
<td><strong>Conclusion</strong></td>
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<td>• Results of Mentimeter questions</td>
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<td>• Summary of policy demand, common country practices and challenges,</td>
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<td>and preliminary recommendations on estimating direct economic loss</td>
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Expert talk

- Moderator: Alick Mjuma Nyasulu (ESCAP)
- Panelists: UNDRR and four table hosts
  - Table 1: Dr. Hem Raj Regmi, Deputy Chief Statistician, NSO Nepal
  - Table 2: Ms. Ashiyath Shazna, Statistician, Maldives Bureau of Statistics
  - Table 3: Ms. Eileen Capilit, Senior Statistician, UNECA
  - Table 4: Ms. Suhaya Komari, Deputy Director, Department of Statistics Malaysia (DOSM)
  - UNDRR: Mr. Xuan Che, Statistician, UNDRR