INDONESIA
ONE DISASTER-DATA
DISASTER-RELATED STATISTICAL FRAMEWORK

BNPB/BPS/UNFPA

Presented to the 2nd Meeting of ESCAP TWG on Disaster Statistics
Nov 2020
Disaster-Related Statistical Framework

**Issues**

- **Fragmentation**
  - Too many data - too little information

- **Disconnection**
  - NSO/BPS - NDMA/BNPB, Disaster - Development

- **Credibility Gaps**
  - Incorrect, discrepancy, disagreement, conflicting data

- **Disaster Data Are**
  - Relief-orientated
  - Part of disaster emergency
  - Short-lived

**Opportunities**

- **Government Policy**
  - SATU DATA INDONESIA

- **Global and Regional Momentum**
  - SDGs Monitoring & Reporting

- **UN DRR**
  - Sendai Framework Monitoring & Reporting
  - Tech Guidance
  - Terminology

- **UN ESCAP**
  - Disaster-Related Statistical Framework

Evidence from Lombok earthquake August 2018

Evidence from Central Sulawesi Earthquake September 2018

Context
GOALS

INDICATORS

COTRIBUTING TO NATIONAL DEVELOPMENT
NATIONAL MEDIUM-TERM DEVELOPMENT PLAN 2020-2024
DRR AND CLIMATE CHANGE TARGETS

DISASTER RISK REDUCTION
DISASTER MANAGEMENT AND EMERGENCY RESPONSE

IMPROVED DISASTER MANAGEMENT
RISKS ASSESSMENTS
REHABILITATION AND RECOVERY

INDONESIA ONE DISASTER-DATA

INTERNATIONAL MONITORING AND REPORTING

Basic statistics
Line ministries’ sectoral data
Local governments’ administrative data

SOURCES: VARIOUS EXISTING DATA

Through environment and disaster resilience reduce economic losses up to 0.21% of the GDP by 2024
(National Medium-Term Development Plan Targets)
A framework consisting of
● policy,
● institutional arrangements, and
● technical management

of disaster-related data as an integrated part of Indonesia One-Data and national statistical system to ensure:
● credible
● consistent
● interoperable, and
● internationally comparable
POLICY FRAMEWORK

Enhanced utilisation of data to improve disaster management as part of the basic rights of citizens

DISASTER MANAGEMENT
Disaster Management Act No. 24/2007

STATISTICS
Statistics Act No. 16 / 1997

LOCAL GOVERNANCE
Local Governments’ Act No. 23 / 2014

ONE-DATA
Presidential Decree on Indonesia One-Data No. 39 / 2019

The principle of data interoperability through one standard, one metadata, and one common reference
PRINCIPLES

COMPREHENSIVE
Management of disaster data and statistics regarding all matters throughout all phases of disaster risk management

INTEGRATED
Involving all stakeholders including national and local governments, and its national and international partners

CONSISTENT
Based on regulations and principles of One-Data Indonesia to promote data harmony and interoperability
BASIC RANGE

**RISKS STATISTICS**
The extent of hazards that interacts with socio-economic characteristics that dynamically determines the chance of disaster-induced damage and losses.

**HAZARDS**
**EXPOSURE**
**VULNERABILITY**
**COPING CAPACITIES**

**IMPACTS STATISTICS**
Information regarding damages and losses that directly or indirectly affect the post-disaster evaluation of damages and losses, i.e. impacts on

**HUMAN LIVES**
**MATERIALS AND THE ECONOMY**
**CRITICAL INFRASTRUCTURE**
**BASIC SERVICES**
**THE ENVIRONMENT AND HERITAGE**

**OCCURRENCES STATISTICS**
Characteristics of every hazardous events that are required to respond and recover from emergencies, and to develop time-series statistics for forecasting, prediction, and planning.

**TYPES**
**TIME**
**LOCATION**
**UNIQUE IDENTIFICATION**
**STATUS**

**EXPENDITURE STATISTICS**
Monetary valuation of spending on all investments and activities directly related to disaster risk management to determine the relationship between expenditure and results and deliverables.

**RISK PREVENTION**
**RISK REDUCTION**
**EMERGENCY RESPONSE**
**RECOVERY**
**GENERAL GOVERNANCE, EDUCATION, RESEARCH AND DEVELOPMENT, ETC.**
DATA SOURCES

BASIC STATISTICS
- Population Census
- Socio/Econ Census
- Village Potentials
- Geo tagging

DISASTER REGISTRY
- NDMA/BNPB Databases: InaRISK, DIBI, IRBI

SECTORAL / LOCAL
- Ministries/Agencies/Local Data Environment, etc.

NEW DATA/ BIG DATA
- Special surveys
- Big Data
- Data mining
Komplikasi Dampak Manusia
Unit pengukuran: Jumlah orang, kecuali 1-3, yang merupakan jumlah hari

<table>
<thead>
<tr>
<th>Kl3 - Age groups</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>0-5</td>
<td>0-15</td>
</tr>
<tr>
<td>15-64</td>
<td>65+</td>
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1. Summary of Human Impacts

Sumber Data

- Bappenas, masing-masing K/L
- Lembaga Lain
- BNPB, BMKG, masing-masing K/L
- BNPB, BASARNAS
- BNPB, PUPR, Kemenkeu, Kemensos
- Lembaga Lainnya

Penyedia Pelayanan PRB (Sektor Kelembagaan)

- Pemerintah (termasuk lembaga nirlaba dibawah pemerintah dan jaminan sosial)
- Pemimpin K sake 
- Subtotal Pemerintah

Rumah tangga

- Permukiman perumahan swasta tanpa biaya

A. Neraca Penelitian Produksi (berasal di luar investasi) berdasarkan karakteristik kegiatan

- Pencapaian Risiko Bencana
- Mitigasi Risiko Bencana
- Upaya-Upaya non-struktural
- Perencanaan penggunaan lahan
- Manajemen sistem penerimaan dini
- Manajemen Bencana
- Kejadian
- Tanggapan darurat
- Penghambat darurat
- Perilaku bencana lainnya

B. Neraca Risiko Bencana

- Relokasi
- Rehabilitasi
- Rekonstruksi
- Pemrintah Umum, Penelitian & Pengembangan, Pengeluaran Pendidik BNPB, KEMENDIKBUD, Kemenkeu
- Pengeluaran pemrentihan umum untuk Pengurangan Risiko Bencana
- Penelitian & Pengembangan, penilaian risiko, dan informasi

C. Subtotal pengeluaran produk berasal (SUM 1 to 5)
INSTITUTIONAL ARRANGEMENTS

NATIONAL DISASTER DATA FORUM

MINISTRY OF COMMUNICATION AND INFORMATION
NATIONAL DATA CUSTODIAN

LINE MINISTRIES - A
SECTORAL DATA CUSTODIAN / PRODUCER

LINE MINISTRIES - B
SECTORAL DATA CUSTODIAN / PRODUCER

NATIONAL DISASTER MANAGEMENT AGENCY
NATIONAL CUSTODIAN OF DISASTER DATA

ONE DISASTER-DATA NATIONAL PORTAL

LOCAL OFFICE - A
SECTORAL DATA CUSTODIAN / PRODUCER

LOCAL OFFICE - B
SECTORAL DATA CUSTODIAN / PRODUCER

LOCAL DISASTER DATA FORUM

EMERGENCY OPERATION CENTRE

LOCAL DISASTER MANAGEMENT AGENCY
SUPPORTING CUSTODIAN OF DISASTER DATA

LOCAL OFFICE - A
LOCAL DATA CUSTODIAN

LOCAL OFFICE - B
LOCAL DATA CUSTODIAN

EMERGENCY OPERATION CENTRE

ONE DISASTER-DATA LOCAL PORTAL

LOCAL COMMUNICATION AND INFORMATION OFFICE
LOCAL STATISTICS OFFICE
STATISTICS OVERSIGHT

LOCAL STATISTICS OFFICE
STATISTICS OVERSIGHT

NATIONAL GEOSPATIAL AGENCY
GEOSPATIAL OVERSIGHT
01 BNPB - BPS CONSOLIDATION
15 OCT
Joint development of framework, reconciling the mandates and objectives of the two national agencies

02 INTER-MINISTERIAL DATA MAPPING
3-4 NOV 2019, APRIL 2020
Mapping out agencies’ portfolios and identification of data possession plus proposed mechanisms and data protocol

03 LOCAL LEVEL PILOT PLAN
18 NOV 2019, SEP 2020
Confirming the framework applicability at the local level, identification of local dynamics and data traffic

04 REGIONAL EXPOSURE
22 NOV: Regional Disaster Stats at Global Centre for Disaster Statistics, Tokyo
3-5 Dec Asia-Pacific Regional Training - taking the lessons forward to the region

05 STAKEHOLDERS BRIEFINGS
16-17 DEC
UNFPA, UN WOMEN, NGOS, UN AGENCIES

06 INTER-SECTORAL ENDORSEMENT
- 18 DEC
NOV 2020
Development of regulatory framework - agreement on mechanisms and formation of national disaster data forum
WHERE WE ARE NOW

A FRAMEWORK has been completed and published

A DRAFT UMBRELLA POLICY: A BNPB/NDMA’S REGULATION

A DRAFT TECHNICAL GUIDE: definitions, classifications, metadata,
Thank you